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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **Minoru AKAISHI et al.**

Group Art Unit: **Not yet assigned**

Serial Number: **10/534,826**

Examiner: **Not yet assigned**

Filed: **May 13, 2005**

Confirmation Number: **8864**

**HIGH-PURITY HIGH-HARDNESS ULTRAFINE-GRAIN
DIAMOND SINTERED BODY AND PRODUCTION METHOD
THEREOF**

Attorney Docket Number: **052514**

Customer Number: **38834**

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.97(b)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

November 21, 2005

Sir:

In compliance with 37 C.F.R. §1.56, Applicants direct the attention of the Patent and Trademark Office to the documents listed on the attached PTO/SB/08. This paper is being filed within the time periods set forth in 37 C.F.R. §1.97(b). A copy of each non-U.S. document is enclosed herewith.

Also, three documents presented in the previous Information Disclosure Statement filed on May 13, 2005 are also attached hereto.

If there are any fees due in connection with the filing of this paper, please charge Deposit Account No. 50-2866.

Respectfully submitted,

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Enclosures: PTO/SB/08
10 Document(s)

Combined Form PTO/SB/08A&B			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Application Number	10/534,826	
			Confirmation Number	8864	
			Filing Date	May 13, 2005	
			First Named Inventor	Minoru AKAISHI et al.	
			Art Unit	Not yet assigned	
			Examiner Name	Not yet assigned	
Sheet	1	of	1	Attorney Docket Number	052514

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
		US			
		US			
		US			
		US			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ <i>(if known)</i>			
	1	JP	46-5204		11/26/1971	General Electric Company	No
	2	JP	62-91469		04/25/1987	Science and Technology Agency in Inorganic Material Research Institute	No

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
	3	T. Irifune et al., "Characterization of polycrystalline diamond synthesized by direct conversion of graphite using multi anvil apparatus", 6 th High Pressure Mineral Physics Seminar (August 28, 2002) Verbania, Italy	
	4	Minoru AKAISHI, "Synthesis of fine-grained polycrystalline diamond with carbonate as a sintering agent", 41 st High Pressure Symposium Presentation Abstracts Japan High Pressure Academic Society, (2000), p108	No
	5	Minoru AKAISHI et al., "Sintering behavior of diamond powder with an average grain size of 50 nanometer under high pressure", 42 nd High Pressure Symposium Presentation Abstracts Japan High Pressure Academic Society, (2001), p89	No
	6	Minoru AKAISHI et al., "Synthesis of fine-grained polycrystalline diamond and its properties", the 8 th NIRIM International Symposium on Advanced Materials, (2001), p33-343	
	7	Minoru AKAISHI et al. "Synthesis of polycrystalline diamond compact with magnesium carbonate and its physical properties", Diamond and Related Materials, Vol. 5 (1996) p2-7	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to indicate here if English language Translation is attached.